9/889874 PCT/GB00/00219

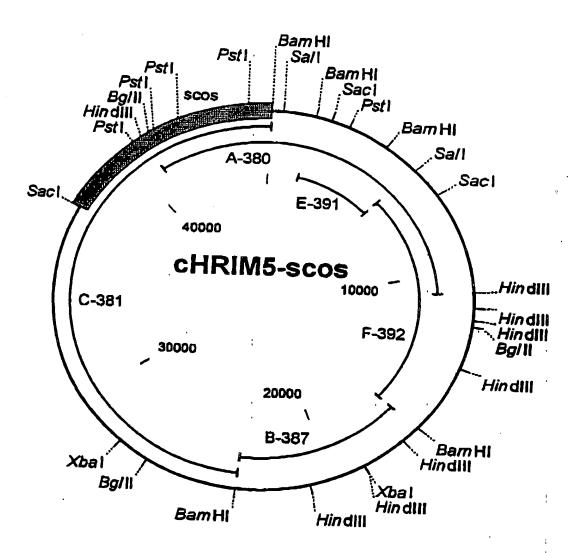


Fig. 1



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Molecule	•	1/1	Sequence :	Data		
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781	CCSCCCCCC	adcactaata	acttatacca	aractygeac	yaccyyaacc ****	gaagaaaaac
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901	atttetetet	tggtacattg	ttcastage	ctccyyaaaa	Garage France	gagtetggtt
961	addagtatac	tecaegecea	acat at as an	gcgcggaacE	ageggeetgg	gragadagea
1021	Egggacacac	cgattacggc	gggcccgagg	cgttttaeeg	reegrigger	cagcggacga
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1261	aagaccacc	coggeteetgg	ggcaccyagg	aayyyactcc	gcagggttat	acccccccc
1321	trecontrac	atttacgcca	attt = t = co	cygeggaage	cetegaettg	asaccggatc
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1441	aanataanna	tatageegge	ctcacgtgge	aggeaetget	rgacgcgggg	gragrgacgg
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1561	accottatos	ggcattggcc	gacceaegyg	aaccegteea	rgreeraacg	ccadecacca
1621	transcott	cacggatccc	gateageaac	tycycaagag	cgtcacctac	a ded a edder
1681	cagatagea	attgcamagt	geagectace	argegeeagg	agaagcctgg	caacgcg¢gg
1741	cctacacact	cctgatcacg	gacgegaaag	gggcgcccc	cgtageccat	acggcaaccc
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2161	tatescence	cggaagtgac	ggttetggat	aaccgggggc	tgaccgttcg	cgageteegt
2221	actototoac	acccaaatac	CCCCACCACC	accdatdasc	ggatcacccg	ccatcggttt
2281	getastaceg	gtcagttggc	geacageatt	gaccegege	tgtttgactt	acagcagacg
2341	acasereny	tcaatcctaa	Catgatttat	gatactgcac	tgaccggtga	ggttgtgegc
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2521	gyacyccegc	tcagtatcac	agaacagect	gctggcgaag	caggccgtat	cacagagegt
2581	catarates	cagggaacag	ccaggcggag	aagaacagca	acctggccgg	acagtgcgtg
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2761	gazeeegeee	ggaacgactg	acradescea	Gaaaacttca	CCACCCTOAG	cacdacadat
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2881	yary cayeay	guucyccyac	LUUCAULLUU	ctacaactta	COOCCOORS	
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3001	Beacyccac	-9999454FGC	acaggggacg	<u>aaddtattac</u>	BOOSECTOR	ctatwagtag
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3781	aacaaccada	tococtacan	ctatus+==-	cyyyayaacg	944AGCCGGG	tyccatcagt
3041	aacaaccaga	aaattatcec	yalaac tataas	trateggea	acadcaacet	ggaggtggae
3901	ggtgacggac	otendacada.	yyaayaa	Lactacccgt	acgggggcac	racaararda
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Fig. 2

chrim5ed2.seq

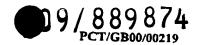


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4741	garacascas	Cottetabe	. acageeggg	agagttegeg	ggaatgtata	tggttatctt
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4861	ga-caucty	y-y-r-a-y-	audcaabtta	ECAREGEERA	CTABBBBBBBB	
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4981	cyaccegaec	. wywcacyteg	regareacca	Ottacaccaa	Caddteddae	acatactact
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5101	ccocatcaca	craacygega	grraatcada	GATCCCGCGA	ataattatt.	+++>+><++
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5461	gcccgtcggt	atcaaccoac	cogtagaggt	Atttccacta	gcetttgact	thattener
5521			GEOCESSCAG	accttttaee	TTTCCcccc	~~~ *
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5001	+ + c c y c c a a c	Acdacadesc		atattocett	acattaceta.	++
5941			CEGEEGCEEA	ABBTECCAT	スンアンイナベククト	~~~~~~ ~
6001	gcgaagcgcg	tcatttgagc	COGLEGGEGA	agagagatasa	caaatecate	cactactacta
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6241	caccccattg	cttgcgcgta	togcodatos	ttacacataa	atoggoetca	acctgegegt
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7261						
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7391						
7441						
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B101	agatcaagee tgtcaaagg	aagccecctt	gaccton	yyy badd Staatat		estttgcctg
8161	totcamage '	Egaaaaget	cacctace	acyycyccar atatoot	Egcgatteat	gagccggatc
B221	aaggcccttt	ttcattgtat	racotto=e=	ttestssss	estattgatg	ccatggcgaa
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894	1 agreeactor coastatoor sattements transcata atattgaata astattaatg
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906 912	l aactgaccat Gaacactgta gtgagaatat tcatctacat cacgatcgtc cgactcaact l gccaccccta cctttcggta cttcatggta gaaggtagatcat cacgatcgtc cgaactcatc
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10981	cogetasas ggtgggasts cotextogs asttgcass assagtegt gtgstggetg atotgcasg sattgcage assagtegts agcossorig
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12721	aasaaacct	attttatt	actattaate	attestates	atttctattt	eaccccata
12781	tottataaa	aatagtatti	* ********	****	tataaaatat	LAGITAACCT
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	*-**	- CLUALGUACE	tataaaatat	atttttacc	aaaataatat	ttaaatcata
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13381	aatacaacac	: tattccaaat	agtcaptett	attettatt	aaagagtgaa	Aattetessa
13441	TTACGCAAAT	: taaacgatat	Otttcttatt	Caaatacatc	CAGGCTAAGA	accasatett
13501	tttctgcgaa	ggtaaccact	accagtogaa	aagttatttc	aataactcaa	astagentta
13561	atteatete	ggtagtaatt	aatocaatao	atocaactas	ttttactgat	***
13621	GAACAACAA	2022202200	tttmaaaac	acyceacted	gtcacateaa	gargaactte
13681	3ctettetata	tataastaas	tocycenacc	aaceetatae	gecacataaa	CCATCEACAA
13741		cycycacacy	Lygacaacac	Caagaagctt	assactaces	aattggcgtt
	gggaagatta	Caataatggc	rggacttggg	cacaaagttg	ctactataaa	acaggagccg
13801	arggaggatc	agagtcaacc	cgctggttgg	ccgctggttc	aatctttcca	ccaggaaatt
13861	argarggcct	gtggctagat	aatgatatcg	cactaagtgg	tatggcacac	aaaaqctaca
13921	atgttgatac	tggtatcaat	caattgagtt	ttacccqtat	tataggtaaa	ggtttcagct
13981	gggtttataa	tatatccgga	cttgatagag	gacataccat	tattattatc	gaccagtatg
14041	gtaacaaata	tagaatatta	ttccatocco	ontatosass	ctcagatect	tacttotes
14101	Catcastagt	Atattassas	tantettace	33taatataa	tagcatttcc	caccigcol
14161	acttoaceta	atmostates	++=+==+++	aacggcgcgg		CCAACACGAA
14221	aatteettaa	attattene		cercacage	cactttttaa	gratacataa
14281	~~~~~~~	greateragg	agaatcacca	tgagtgacaa	taatgagttt	tttactcaag
14341		Caccageget	arcratable	dearrasee	togcacagga	ttatacaata
	Cacazactac	tttaggtcac	attgttggta	acggtaatct	tggacctact	ctgcctctta
14401	ccttaageta	*****	ABC8888Caq	atattooatt	tgocattggt	TETAATTTTA
14461	gattattagt	CTACGACAGA	aaaaattctt	tattotctct	ttctaccoot	CARRETTA
14521	aagtcatcga	aaccgataaa	acagtaaaac	ttcagcaaaa	asaactcgac	aatttacoct
14581	ttgaaaaaga	cctaaaagaa	aattgttatc	gtattataca	tamatccggt	datattdaad
14641	tgttaactgg	tttcaataac	aatoccttto	acctossagt	ccctasaaaa	Ctattaaacc
14701	ctactagaca	toctatctat	attgattgga	attttgagge	aactcaacct	
14761	gtatttatge	tostctoost	aggestrata	taccettate	asacctages	totalance
14821	taattaaaac	gatettaacg	sttttassta	decentary	adaccuages	Catcaaggac
14881	getttet===	52525525	Described	ggcaaaagga	aggetacegt	acegagetae
14941	2000000	Cagacastry	aacagcatee	acaacettag	cttgggtaat	gaaaaccctc
	ceaectggtc	crreddrage	acccctatag	gaaaaaatgg	tattttgggg	caatggataa
15001	caagtatgac	cgcccctgga	DEKARTTARR	aaacoottaa	ttatagtaat	aataatcadd
15061	ggcatcattt	ccccaatca	gccaatctac	caatattacc	Ctatotcaca	ttaatgaagg
15121	aggttcctgg	agcaggacaa	CCCCCtatac	aagcagaata	ttcgtatacc	tetestaatt
15161	atgregatga	gggatctast	ggtatatgga	ataataaatt	agataatctg	tatogatto
15241	toacagaata	taattatooc	tetactgaat	CCCCCAGATA	taaagataaa	cacygattya
15301	atcasatagt	CCGCATATAGA	CCCLCLERO	cccycagaca	totgttaact	gaaggccatg
15361	200220030	tegatatata		a Law Llacea	CCCGCCAACC	tccgaatgta
15421		tygatatata	cagacaactg	agacagcata	tratgctatt	attggccata
15481	attegatte	ceagecetca	Caattctagt	tgccaaaaac	CARRECAGER	acttggcgta
	gtgtagataa	CAGCTATEGA	agtgaaatta	Ctgaaaccac	atttqatqaa	AGCGGAAACC
15541	CCCLEACCE	OUTDATCELL	CACABGBARA	亡みこみのままるまた	A A T C T C C C C C	+ < > > < < < < < < < < < < < < < < < <
15601	gggaatacta	cccrccddcf	aaaaaatca	ataattoccc	accada acco	tatematte
15661	yy-		atacaaactc	CCTAtoacto	COBSTETS	49+49+4944
15721	agaaatttat	ccagtategt	tatagggtca	ttaacaatea	gagtcatgtg	gargarangg
15781	tagaagaggg	CCactacant	GC22CTC22C	ttetes	tactotattt	
15841	DEGGSTANDO	toaacttaat		cccigaatag	CACCCCLATE	
15901	~~~~~	**	-yeledetaa		atgtaccasa	ggagaaaatg
15961	Accesión		CATALATERS	CCTATACAAA	2020022	
	-y-y-c	-araccacc	CATGATARTE	TCACAATTCA	CCCCRCRCCA	** *
16021	3	acaccrace.	CCECACACAC	ATACTAABMS		
16081	a tyaca ba c c	ggguugauta	CTCACACCCA	CCCttaattc	COOTACACCA	+=+<
16141	ctctgacata	Egattatgaa	Ctagatanto	ttcaggatga	Caategeect	
16201	ttaccaccac	ggatgtaaat	Odcaatcage	ttooossto	attegacggt	yecegeta
16261	atotcaocca	atacctca:	77		accegacygt	Accadrode
16321	AACASTATOP	TABLASSOC		Arderadare	attetatacg	atacatacgc
16381	among ca cyc	Lyaareequu	CUTCATERER	CATCEACATA	CT CCC+0++	
	y way	Aarana rricr	USTBEDDTEC	ATCTGTCTAT	~~~~~~~	+========
16441	33332	-y-y-acata	CACEGOAGEE	<u> </u>	ACCESSES	
16501	-2	44 CHULLACC	aaacacttae	222002222	C2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
16561		warrie Caco	CCABOCCARC	ふみぐぐてョナニかっ		
16621		BLBUEULLUI	CATACCCTOS			
16681	Maaccoator	aatagggge-	+ conct-++	occupated.	ctgggatagg	gttcgcaaag
16741						
16801						
16861	-3-43-4-4	-3	ULUAREDHAA	TTTCCTTAAA		**
7000T	rgagt gatt	aacacaaagt	caagatgggg	gacgagtátő	ggcttatact	tattenness
			Ti- 0/:	::\	,,,	
			Fia. 2(i	4 E 3		

Fig. 2(iii)

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	i5ed2.∌eq					
16921	gtaatgaco	a atgeccate	a acagtaata	a caccagatgo	l tradettate	
16981						
17041						
17101						
17161						
17221						
17281	agactacto	t asattacga	t dacctdaat	c gccatattgg	aactaaagat	tcgtcaataa
17341	cgactggtc	a tarattaac	a aceacaor	g aatttgatgg	cagicaagea	acagatttag
17401	ggaaattgt	d toataucto	a doctoogy ty	y dalligatgg	CCCARACCGA	gaaattggac
17461	AGCARTERO	C BARtagaat	a gycoblecy.	tagatateca	gragagetgg	ctgaaaacac
17521	cttacgati	C CCCtaatan	a ttanaccai	atggagtatt	gcagcgtaca	gaacagtact
17581	acaastato	d coatagoat	g ctgaaccaa	atamatgtga	cggtgcggaa	tgcccgacag
17641						
17701		_ ~~~~~~	_ ucavacuuo:	. Cagaaaaaca	- ナクペチョ ニッチャー	
17761						
17821		- yacacacua:	L aauuctootx	l CACTAATAAA	T = = = = = = = = = = = = = = = = = = =	
17881			- vacacacico	CCACATTACS	22266776	
17941			- cucteautom	LOCCADAAAAC	ACDTS CCCts	
18001	-,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ABOTTBERGE	T////	
18061		,	1 0	. Bacccccatc	33337777	
18121		- ~	, ocatraacos		355C++++	A
18181		99-000,00	. americiacao	CABATORESE	てたのたったののたべ	~~~~
18241	7-7		. euluugulaa	CACATTTAAA	TABEAMTERAL	
18301			. Calactican	ATACCTTANC	アクククチャナルルト	
18361						
18421	-3-33		. uuuallooca	TAMBARTAAA	T 44 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
16481						
18541			. uuuucaclom	DESTRUCT	775646AAA	
18601	,-,,-,,		coccuaauo			
18661			victuaateou	CCATTARAGG	TARABARASS	
18721	~~~~		uacococaza	accertact	T 3 2 3 5 5 5 5 5 5 5	+
18781			9-22020000	CAMATAMAM		***
18841	J JJ		- GUCCUAUDEL	#C#CCCATAA	CTTTTTTTTTTT	
18901	-33		VOLGAGUALU	DALLETTATA	TCSSSSSS	
18961			acceptace ca	CLCCLGAACA		
19021			<u>u</u> Lacaauuau	UAUACAAACC	アパヤナヘットナナ	***** *
19081	~	Cancintare	CEGGETARA	TOOCAARATA	Tatesace	
19141			acaccacaao	CATEBOOCSA	227	
19201				CACHHAAAAA	^	
19261			LLLCGCCCCC	AATAACETES	~=======	
19321						
19381	22233-		LCAGCCCCC	AATAAAAAA	+	A
19441						
19501						
19561						
19621						
19681						
19741						
19801				GOLCOCKETS	~~= * * * * * * * * * * * * * * * * * *	
19861						
19921	accatattga	aataatgata	ccgtcagagg	ctccgcgaga	ataccoacac	CAACTUCACA
20041						
20101	grgartacca	ctggaaaaac	ttttcgccag	tgaaggcage	anatcotce	Ctarcocke
20161						
	geetgaaacc	=gaaatgagg	caaaaattgt	attaatgate	BAGGABATCH	CCCCCCCCC
20221	tacacccaga	attgcaggcc	CCAtttgacg	gataacccgc	Catacaacaa	\$ cccgacega
20281	agaaatccgc	ggcaztacca	gcatgccgat	ctttttcaga	taaaaaaact	ryccacggae
20341	ttgcamaacc	cctccggcaa	CARCGGCCCA	acccagege	ages charact	gataggccsa
20401	aggagccaca	aacaatgcaa	mantgatcat	acceagegee	agcactggtg	gattgtaata
20461	aggcaccgaa	eagcggttcc	atotattago	aattgcgcca	ageagegeeg	And Carrando
20521	caaaaagata	tanggaaacg	taattctaag	tabatcacgg	gttaaggag	ccagcgaaat
20581	tgtatccgta	a atcccggcg	Gagtcacata	gatgatccae	,y=L=Q	actuatecgg
20641	cactgagacg	atagecagaa	tcastotcas	catacctgag		LENCACCIAL
20701	tgttgcttca	teccettett	gatttttat.	troggenaga :	arargema	caaaggtacg
20761	adaagcgccc	tetgcaaaga	tacqqcqtas	caggttaggt	ggaacaa	aagcttgcga
20821	ggcatccgtc	gccattccto	Caccasatat	acgagcaata	amercaaagg	CRECERENT
20881	CAGCACGCGA	Geanacates	tcatterate	acyaycaata (regerates:	gantaaagec
20941	ggtattgttc	taaanttota	****	garcyceges (agegatetea .	ataagttcat
21001	Caggesteat	Aanatage=	tataasa	attaagcata :	aaaatgtaaa	getateceat
21061	Ctaacagaca		ct.acageaa	tctggcggga 1	tagcageegg	tgtttaeagt
21121	attentana	Coactttee	acatttt	tatattacge (ecattagec ·	ttaccccaia
21181	CBBBCACCRT	ctatcatta	ucatgrateg	tcagtcaatg (cgtcagcac :	Atgatettee
				annengetet (ctgctcasa	teccaactt
			Fia. 2(iv	· \	-	

Fig. 2(iv)

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chrim5e	d2.seg								
21241	ttgagcaggt	tcccactaco	atggttatgt	gocatotaat	tagccataat	conditionant			
21301	ctctgatage	gctgcatata	geggatege	ggitgcagcg	cttcatacat	CARTCCTTCC			
21361	ccttgcaatt	t teteagetaa	. Agaata acca	BOALAACAAG	adtopaaacac	accaent .c.			
21421	acattagtaa	aattcgccac	acccataatt	tcacoctest	CAGAGECCAA	tastacian			
21481	ttaaatgtcg	cattetgeeg	ttotaactca	gcgatatagt	tcaaccoatt	totcostcos			
21541	gagggttgat	aaaaactgcc	atcocttatt	. goctcecato	getteaggaa	arctttatta			
21601	tctgaataat	: actcagecaa	togataagca	tcacuttcat	ataccagaga	3303300310			
21661	ctatccutae	taaatcgaat	tttgggggat	ncaraacrat	******	SCCEECCACC			
21721	gatatttgto	ttgaaaaaat	tctomatast	ttatererta	transatrat	tacatata			
21781	cctacgatas	anametatca	totataacco	tetacettaa	pratoarate	2000CELLEC			
21841	taataagaac	ttcatattta	attetetes	Etttteeten	tacasatat	ayyyccagaa			
21901	acaancacat	agcttgggta	antacttont	accusaysyy	Lycycaatyt	cyttygttte			
21961	ttttttare	gtttttccc	taattrase	testeresta	antitating	CCGCCCCAgg			
22021	attmattmtt	ggtttegete	********	topicing	gaacaacccg	geeggeegge			
22081	castoscoc	. gytttegett	cadadacrred	reageright	cagcaagget	tggggatett			
22141	occarcacto	atogoagaco	tastagase	caraccaara	actigetactig	gcatgttatt			
22201	ctacattata	ggttttgctc	Tagge and the	gycacacgag	CCALGGALAL	racracrete			
22261	taaattaaca	tcaggattgg	gaggaacatt	gtttgateee	cccagagegg	ctttggtcat			
22321	caagecaace	egtecesatg	agcyaggggg	tttttattca	attetgatga	tgcaggacag			
22361	catatactac	gtggttggcg	cactcategg	aagetggttg	Ctgcaatatg	atttcaatat			
22441	cycligotyy	attggtgcat	CEALLETE	acraacracs	ttatttaacg	cctggctact			
22501	techerac	cgtatttcaa	caateegtae	CCCTACCAGA	gaaggcatga	tgcgggttat			
22561	eagayatty t	cggttccttt	accatgiget	gacattgatg	ggccattttg	tectgteagt			
22621	constants	ctgatgtttc	cyattattat	ccatgaaatt	accggcactc	ctactgccgt;			
22681	ceee tygety	tatgecattg	adacegerat	ctccctgaca	ttgctctatc	ccarcacaca			
22741	cryyagryaa	asscatttcc	gactggagca	gcgcttgatg	gegggettat	ttttgatgag			
22801	catetycaty	tttccgatcg	gctgggtcaa	tcaattacat	acactgtttg	gcctgctttg			
22861	ceegeetest	ttaggtttgg	taacageega	tectgetegt	gamacgetga	gtgcttcact			
22921	teetee	cgggcgegtg	geagetatat	gggatttagc	egtetgggtt	tagetetagg			
22981	cggcgcgata	ggttacaccg	araasaaara	gctctatgat	actogccgtg	acttgaatet			
23041	\$CC9CABLLA	ccctggattt	tgctaggatt	gtetggtttg	attaccattt	atgetettea			
23101	gaastagtet	aatcagaaga	ABBUTGATOO	tgtgatgctt	ggtagacatt	aatcctatta			
23161	tageageage	ABBRECEGEC	Cattgaaaat	aaaaaggagc	Castatgaaa	agatttttct			
23221	ceggggcage	attagtgctg	graggattag	tcagcggctg	tgatcaattt	mangacttca			
23281	tracrettre	aggtotgatg	aatyattatt	tgctcaaaa	agtgcattat	Cagazasaa			
23341	CCGCCACG	aggtategeg	actyctacta	reacgerggg	ggatteatee	agecagatag			
23401	tactocotac	tcctgaaaaa	accyaaccac	ccacgcaage	Manageteaa	CTTGCAACAC,			
23461	Cacaaaaaaa	gattcagget	gatatgatat	restertes.	ggctaaaccc	gracergarg.			
23521	AAAAAAAA	cgctattttc	gryamagggc	ttastatat	agactaccag	acescaccgg			
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23641	cctcacaatt	tcatccggtt	tteenanth	acceagesas	aagcaaggec	gaggeageag			
23701	Standact	cgctaaaagg	ttggaaatta	aacecgggaa	gccagerate	adaccascea			
23761	ttttattta	tttatcgtca	accontage	aagggcaaat	tattaatgga	taatttgccc			
23821	tatograaca	tcaattagtg	#attetact	regectgtee	arggeetteg	gctgaactat			
23881	tracastore	ctgtcactca	*****	taccacgeaa	rgectgeaac	gcttcacgag			
23941	actoccoaca	cagegttega ccaaggcaaa	agatage cae	rggcrgcarg	ggctteaact	ccaccgagga			
24001	cttcacctcc	ctgatcttcc	Accetos	Costonacge	ARTELYTY	rggatttcat			
24061	CAGGAGTATC	agacagtggc	attrecent	ctotososos	regagageeg	aacegatcag			
24121	ctccatceat	ataatcagat	CCSCSCSSS	Concesses	ccgacycacc	CONCELECT			
24181	COTCATABLE	ggctgccatc	actorcante	castattatta	cyatteteca	gradacagag			
24241	catectotte	caaaggccat	acttattt	statements	cigtadacga	TECHGCCATE.			
24301	Ottocasasc	gggatettge	actocacac	****	agcaaccatg	grgattaaag.			
24361	tagaaaatto	gttcataact	tasttasta	ceastactic	geceater	caacadacaa			
24421	ctastcocct	gccatgctgt	33445555	CLARCAGELL	attaattage	derrestates:			
24481	cagttggcat	ttcaccctet	acestaces.	greatagee	acgeacceta	reduciadde.			
24541	CCTCAGGAAT	ttcaccctgt	Scartery Co	ggatatttt	acagacgaca	tccategeag.			
24601	atoggtocat	agtgttagca	gcaatatggg	gagtcacatt	eatacgaggg	tgagtccaga			
24661	a contrate	atttgacaat	agreeregg	Calacacatc	aagggttgct	cctgcgatat;			
24721	taatcacatt	aatagcaacg	agcagatect	gttcgacaag	ctgcgctcct	cgcgccagat			
24781	COOLUGE CALLE	-year-c-cqut	TTTBUTTOUC	tosatastos	Camattaann				
24841	og cogggage	0	aduttaatea	OCACETTORA	777872272				
24901		= CCy caaaaa	CTTTCGacac	しょし こりょうしょう	ナナナナルシハイナナ	***			
24961			CCCATTABLE	TOCCERATORS	3 cttccccc	BB6566			
25021		yucyataaca	dattette	aattatacaa	accest acce	++			
25081	33	3-4-54-15	LATICERCOR	EGCGGCGGAAA	2122100200				
25141	cyyouracte		CEECCERTEC	こてのてって こととっ	ATARABASES.	B B B M			
	omy congre		LLLLCOMER	CTTGTTTGAA	3370005400	DOD			
25201			auccetore	CATTCCCTAA	/stttms+	## * *			
25261			UDCECEENST	CACCACTGAG					
25321		-A	CCLEGEATER	ACT CAT PERFE	****				
25381			LATECCTTAT	PAPPPPPPA					
25441	~		LUUANEACAE			A48-A			
25501	taacatattt	accactgcat	attacassas	gegesteade	tttagtaaat	dactators-			
		-	E:- 04	-1		yaa			
	Fig. 2(v)								

Fig. 2(v)

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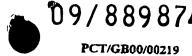
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		ment.acd					
i	25561	tattcaaat	t gtttttat	t tgtgtmatc	a gtcaaaaagc		
:	25621						
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	25741						
	25801		3 ~~~~~~~~	a alactaaoo	C EEEETTTATAA	. ++=a+=++	A
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	25981		4000		C CATCTTC28	7575554444	
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,	26101			u uubatutet	L MAADETTTT	<i>0000</i> 77555764	
	26161		· ceeegggaca	L accomata:	a tatoscosto	ARREST CARE CO.	
:	26221 26281	33	u wacrtegut	LUUGGEECE	L OTBCEATET	Matches and	L+
:	26341		, Acertagere	acateteza	- CODATAGRAA	Cataataaaa	
	26401	accycygan	r agracyatco	1 GGCLFEGCE	CTCCACtcca	22127C2227	20522555
:	26461	vaccay cay c	, agatyccaca	i EMACOGGAG	: COOCAAAtat	COOTTCAGG	++
	26521	r r r r a r a a a a	. agraggilgae	CCCCCGACAT	: Cadadacata	AACAAGCEGA.	+ + + +
	26581	-yyyaya -ac	- wywww.caac	, acadattte	l DCCCTAATA?	00ttt.	242+4224A
	26641	aaacootcac	- deeyeeschi	. Leggeetga,	cagcgggaat	atttgcatca	ggttcamatg
	26701	atottaatat	toccattta:	cacgecatat	tgtttcatc	tgtaataatt	tgatgtcgga
	26761	tatttgaaac	ataaaaacoa	atttcccc	cctgatcggt ttccacttaa	gasttetta	ttcacttcga
	26821	c=gttttgac	Etecette	aattgaaaat	attenagate	Cattete	ccgtattgac
	26881		, 4=-arancoc	: UCCCBGATAT	. 000217777		***
	26941		. caacacymc,	amactctcac	: BOTTEBARTOT	スヤベンベスヤトベー	
	27001	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		CRUCCCCCC	autatematem	at and to see	
:	27061	2 448 446 6 6 6	· · · · · · · · · · · · · · · · · · ·	VAUSABEEE	CECCATEGET	72772224A	
	27121	*********		attootttt	AATTTTTTAA	亡のひととのへととっ	
	27181	JJ-490		. y Leat Lucaca	CCATCCAATC	2022100102	+a++++====
٠	27241 27301		9-20-0-10-0-1		TTCTCATACA		A-A
	27361	-2-2-3-3-3-3-6-3		gggtattgat	COCCTOACOT	*********	*-*
	27421		333	CAGOCCCOAL	CHOLARCORA	CTTCCCTCcc	
	27481			CCOCAATTT	- CCLLAttaca	******	
	27541	ttototamac	ataacccctc	CCACCCAATT	cgcgcccat	gccaacgcct	ctatttcatt
	27601	ctcacettes	ataatcococ	cttcacceta	tccaggcctc	assacgtate;	ctattcccgg
	27661	taagctgata	ttcaatttct	GGGGGAACAC	caacgatgea ttttecetga	atatecegat ,	acagtgttct
	27721	CARTALLICO	atgagaaata	a Canacacta	tgetetagac	accegaaagt	gataacggcg
	27781	gttaaccgac	teatcaacct	ctantaatac	gcaactatca	tatttest	grecattcha
	27841	9	yerrrrrrr	acaacatcat	COLUBECTOS	ナナベベルトレレシャ	
	27901			aattaacctc	CANACCACTT	24245555	GB - GC - C - C - C
	27961	3		adacttacto	COTECTATOR	Tabette	
	28021	322		CACTILLARCO	acactattee	ナバナルシュシュンシ	
:	28081 28141			VECCCACCE	TATTOOTEGO	ナベヘクナベナシャル	
	28201	-393	-yearycear	LGETGGGETG	CTOOCACOOO		
	28261				GECATERCE	DTATERAGE.	
	28321	ttgaccgaat	testeddest	gaacageete	agcctgttga	Ctattttatt	cctcactatc
	28381	CCGATAGGAA	######################################	teeteetee	acgattggtg	catcacggcg	ctatgacggc
	28441	ttccctttoo	ccttagacta	gagtetetet	tteggagett	arggattgat	tattgcgatt
	28501	gtgacttgct	atcadegegt	tottasacce	ttgtttgctt ttacgtgaaa	TCETGATCAT	tttactcttg
	28561	Cactccaaat	gaggggttaa	Catoacacca	caactcgatc	Leeggergge	tgaacagtca
	28621						
	28681						
	28741						
	20001						
	28861 2 892 1						
	28981						
	29041						
	29101						
	29161						
	29221	diagtinana	atacase	cgccaatatt	ctcttggatc	tttaccaaac	egecgagega
	29281						
	29341						
	29401	gtttttgaca	assternant	CTTTTTTTTTTT	gatacgttgg	grgaaaaga '	togocatoto
	29461	gattacagec	aagaagatac	Ctonanton	totaccetta	cactteegeg .	ttatcagcac
	29521	tcattaccot	atctatatec	taagaaactd	acctobace :	aatttegaac	attmagcaca
	29581	actcactggg	Ocagaactte	CORDORATE	tornteres	tgatgegtaa (ggtaatgagt
	29641	ggctccacat	tagattator	ctaccccase	rgcarcggce .	tcassacggg	gtttgattcc
	29701	atactcqata .	agcattattt	CARCAGE TT	caacegcagg (graagggcat	tttggggcgm
	29761	catattgaaa	tgttgatcco	CCRtact=++	cgcagtctac	gratacgcca (gcgcaagatc
	29821	catatggttg :	atatogoogo	Eggacacooa	cycapictae (yryaacagaa 1 Ffgaggga	Latgootgtg
		<u>-</u>	-	Fig	0/:>	Aachesse	caacgatttc
					713713		

Fig. 2(vi)

chrim	5ed2.seq		2117			
29881		d attotates			_	
29941	dcttat tt	g attotattt	teteaggga	c tatagegaaa	tcaatgttaa	tcaagggcag
30001	AAtgstgaa	g aggagegege a geateteate	Cattacocc	assattegtt	ttattategg	tgatgccttt
30061			. LAALLLACE	. 20222277666		
30121						
30181		2	, crercarde	: adtcaaccdt	. GGATCatee	774-00k
30241			- 941244	: OCCOGGEEEN	. AAAAAA/++	
30301	3	y yearchicking,	, cuttecomer	: accaaacata	**************************************	
30361 30421	addectoag	e cyyoacacca	. Cardcactci	: ECCCTEGATA	. GECAtranea	CCtataant-
30481	acada ca co	o cocyyctaet	. gcccccaact	. ccotttttet	. TECETRACEES	taaccaaaata
30541	abccagece	a cyycacaaag	. eagcgatgt	: gacactataa	<u> tattedatta</u>	GGBBCBtBBC
30601	tcottattt	t ggtcatggtc	tcaccata-	tactggagta	tcgatctgtt	ctacggaata
30661	gcatcacto	a tetgtaceca a ttgcetgtgt	Engattetta	cagtggette	acggctggcg	attaatgacc
30721	CCCACCACAC	aaggcctatt	touctoute	tttaatcaac	tgaaattttt	gtteteeege
30781		, cccccccccc	ucacattatt	. Clactataat	tactetaact	acact . tt
30841	3-0-1-0-2-0	. 9-99	ycataaatta	CECCACAETT	サーカ かかたつ イヤカ	
30901		. cyerryyyca	. ucaccattet	AECGAEGEAC	ナカカののかのたたた	++
30961	2 6-0		uccoatter	TACCOCTAGO	00+000000	
31021 31081	-gu-q-u	. <i>446645565</i>	LUGUETATEAT	CTGBCBGGCB	~~~~ <u>+++</u> ~	
31141	3-201			CCOCCATACC	CT SCLStsts	
31201	~-~~~-	3		TCCCCTTCTTC		
31261	ctctggttc	ctgcacgetg ggcgtaaaag	Cocaccttt	arceteta.	tgggageatg	gctctcttat
31321	Bychrychi	. gccagcccgc	racaacc	adtatectta:	****	teseteses
31381			QULEMATERE	CETTCCCACC		Att - 4 - 4
31441	- cryy carring	acyclcteca.	a ccoocaott	tatacactaa	<u> </u>	741441444
31501 31561	3-49-404-9		acredusced	TCAEGEAGTA	COSTAGTAGT	
31621		. =3	a Latuatato	AACACECT.CC	tancastact	MARK NA AAAA
31681	«yaccyca cy	reacguicag	ecanacaca	ctogatorer	+a+e+e==+a	### A
31741	ascottasas	ggggaacata	ttataterae	actatetect	atcagcaaag	tgattatege
31801		actyclucation	LEGACACTAC	COCCTTABAC	*****	****
31861			a L LU C C L L L L	CCATCACTAA	C#C1	
31921			CALCUCCEDA	4444400000	gagttegate	
31981	y y	eaces arear	CCCSSCGCO	CACACAGAAT	MATMMETTTS	
32041 32101	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	GEGGGGGCLE	COMETOGECE	GALCELGEAA	アウバンナンクナバケ	*********
32161		4-40-4-11-C	CACCEDIAT	teagetttaa	たぐたぐりぐろろうべ	+
32221	tattgggtga	attttetega taaaagagat	actettacat	attanctanc	ttttagacct	gtaacacctt
32281	tatttttgg	ttttagatta	aatgaatact	COTESSATES	Atgographog	gcggacgcct
32341	3-3		VAAGGAATET	CACCCCCCCC	CCCCCTTTT	
32401	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		LUCEALCOCE	ATCCCATTCC	たままて バス たた たか	
32461 32521	-3-33-33	a-ay La	LUGCELOTAT	actoccocta	tencennest	* # = = = = = = = = = = = = = = = = = =
32581	~-9=99=9	yereacytia	CAUCULTEC	aacccaacaa	CGGC++++a+	
32641		AN ARRAGE P.C.	-war cenaue	DUCCEOCECA	TT 66672 6664	~~+
32701	3-3			CCCCCCCCCCC	rray comments	*-*
32761	aatttcttto	ttggatttac gcctgaaact	GGCACATATA	GCCECCACCA	tegetaceat	gcaggtgcan
32821	ctttatcang	ccetgccttc	attacaatte	agtgatacec	TEATEGREEA	ggtagttgca;
32881			U E E E E E E E E	DEALROTTAR	たったがり たっととと	
32941						
33001						
33061 33121						
33181						
33241						
33301						
33361	gctataatac	tegecegtte attecetget tegecegear	datattatta	gracadaced	gtgcaacttc	cccgatagec
33421						
33481						
33541						
33601						
33661 33721						
33721 33781						
33041						
33901						
33961 33961						
34021						
34081	gactaataga	agactagegt	accette	caccetetec	cagttatget	ggcagagggt,
34141	accacgtcat	agactagegt caategettt	agranticat.	99554	ccagtteegg	gaaatttttc,
	- -		your	-gyddigect	-cagetttgc	caatggcana.
		Į.	Fig. 2(vi	II)		



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34201	gcagacggg	catcacatt	t docattte	t ddatetee=	t ======	g gaacagacct
34261						
34321	gaagetgea	c ctaatooot	C deddeseta	t astronton	a congegege	g acggccaccg
34381	gcaccttqq	g tagettett	g catgacace	r aacycatga	y Lyacgtega	a aatgaccggc
34441	tasccaaag	t toctoccac	g gtcacacac	g abycccayc	a tytcaacca	a aatgaccggc cagattgtca
34501			t ttgcccagg		r carracede	ttctttgaat
34561						
34621	agctgaatc	a categoem	C Process	agatoggto	: ggcgggcaaq	dacattaatc gaaggotgga
34681						
34741						
34801						
34861						
34921						
34981						
35041	ctattata	T deattigti	, tatcaataaa	aaaataaacc	: taatgcagga	Caatcasccg
35101	ttessess	g grgrraarr	gcatttttat	catttctgag	attgggtcct	caatcasccg cagggcaatg
35161						
35221	aagctte.	cegeggaeer	catagggate	: atcgggatca	aacgtcagca	gggcatagat Ccacttcgct
35281	ggccccaage	gecagetee	tetttttete	ttccatcaga	gaaactttga	tggtgteagt
35341	gattergege	acgaggetga	cattategge	ttcctgcaaa	tectatttt	tggtgteagt tcagacgaac
35401	ayunggen	atattacctt	ttaaccagac	atccagcgta	tgttcattca	gegrateece
35461						
35521	gartggaaat	atgacagget	gtaccgacag	ccccagcgcc	tgagcaatat	gcgtaaacac
35581						
35641	tagacaga	Castacaccc	cattagetee	accaaacttc	cattcccgat	dadaaagtgt
.35701						
35761	ttttaccaat	geagetaget	gctcactcac	cagagtetga	ggaaaatcag	OCCOGATAAT
35821	CCCEGATACC	agestaatac	cgtcaatcag	gggagtatta	ttgaattcat	aattaactat
35881	yygerceatt	TELBLECCAL	cetterera	tgatgcgttc	attaccocca	taateetgaa
35941	aayrcgctat	Ctgttgataa	CCCLtctcta	amaataggtt	tetgaçãaco	Ottocctott
36001	ceagecatg	ttccagcaat	agccatccat	ttggtgacag	gaaatogcoc	gestatecea
36061						
36121						
36181						
36241						
36301						
36361	grycaarege	caccaccec	gtccccagat	ccagaatccg	AGECOGAGAA	teaggeasts
36421						
36481	atacggcaaa	cggcagtgac	cagaattccc	gttcaccast	aatataaget	Accesetes
36541	cetgaatgeg	gcgcaccagc	aggctatcaa taagtacggg	gctgatgcaa	ttcttccgat	denattance
36601	CCCCCCCGAA	agcaatcaga	taagtacggg	Aacgccctgt	Cacotatoco	aacaacattt
36661	ecycatcacg	cttagggetg	tcactttcag	acaactgggt	ACCEDENT	totaggacc
36721	accygenate	Cattaatcct	getetgacag	tgcagacagt	tgatctgcct	Catattent
36781	aatgatcggc	tgaataagca	tatecagttt	gcettetate	acttcatcas	gacacteta-
36841	cyccagactg	atteggtgat	Cagtcacacg Cagcasatt	cocctataga	Aagttatagg	toogethee
36901	atttgagegg	teaccagaac	CCagcaaatt ggatacgcgc	teggegttea	gaggettees	cttotttee
36961	cttccgcatc	tcagcagcac	ggatacgcgc cetgacattc	tgecaatacg	gacatement	ttaattaata
37021	reededeedd	gaacgeteat	cetgacatte	cactacgato	CCCattagge	ecyclitytt
	regartegea	gaatcggtgg	tattgacgtg	Ctaccacac	GC&CCGG99a	gacgggcaat
37081 37141		maatcacccg	ggctgatgtc	COOTAATE	acttetaar	ayeyeaacgt
37201	gecagecaca	gracaggcag	Bagtgtgaat Attcaaattt	gegeectas	gattccgt++	ceeeeggcat
	ccggacacga	tgaccgcctg	attcaaattt	Caadtgacca	Tabacctes*	CCGGCACACG
37261	TTTggcaatc	acttetttgt	agccaccatg	ctcacettes	TTARAGES	CACCCGAAAC
37321	tetecagegg	cgggcttccg	catagogget ttectecoe	atacatocae		TARTCTCTAC
37301	cgcggcttca	tegecacega	ttoctgcccg	Gacttcaage	dereverence C	CCGCaaatat
37441	eggatette	ggcaacagca	gtagotgtag	ctactatte	adacagetge	gcccatcatc
37501	tgcctccttg	agctcttcct	gegeeattte	ccacett	ayeretteat	Tacgaatttt
į	_		3-30-06-66	ccanarred	acca	

Fig. 2(viii)

Fig. 3 chrim5ed2.seq (37544 bps)

WARKS AND CLERK

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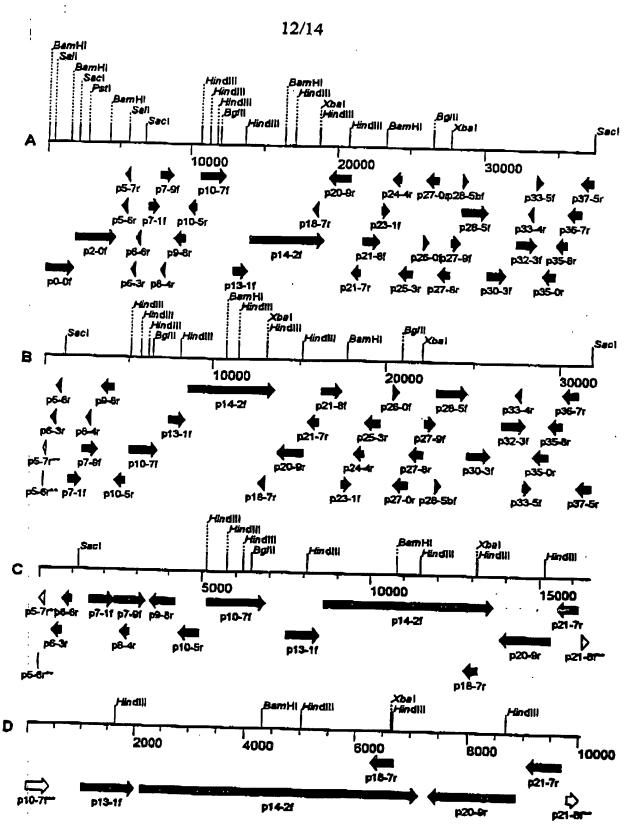
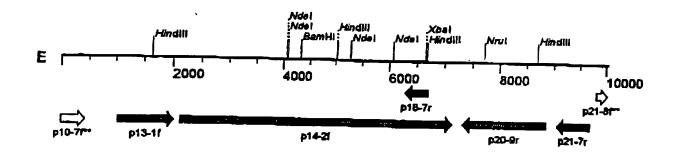
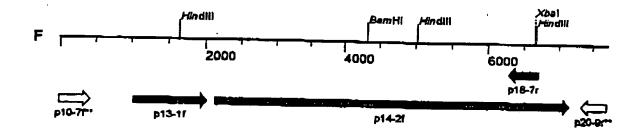
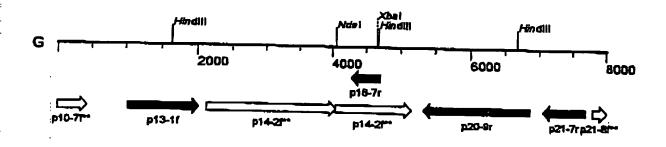


Fig. 4







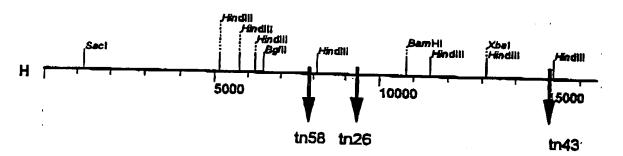


Fig. 4(cont'd)



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